

1/1 - (C) WPI / DERWENT  
AN - 83-18194K ç08!  
AP - JP810102213 810702  
PR - JP810102213 810702; JP860213773 810622  
TI - Calcium phosphate fibres prodn. useful as bone filler -  
by melting and extruding through air-cooled nozzles and  
dipping into acid soln.  
IW - CALCIUM PHOSPHATE FIBRE PRODUCE USEFUL BONE FILL MELT  
EXTRUDE THROUGH AIR COOLING NOZZLE DIP ACID SOLUTION  
PA - (MISE ) MITSUBISHI MINING & CEMENT CO  
PN - JP58004821 A 830112 DW8308 011pp  
- JP62012322B B 870318 DW8714 000pp  
ORD - 1983-01-12  
IC - A61L27/00 ; C03C13/00 ; D01F9/08  
FS - CPI;GMPI  
DC - D22 E33 P34  
AB - J58004821 Molar ratio of calcium to phosphorus in the  
calcium phosphate which is used as the material on  
producing the fibres is 0.6-1.7 after the melting  
process. The calcium phosphate is selected so that the  
total amt. of CaO and P2O5 in the fibres is below 80%.  
After the calcium phosphate is melted, it is extruded  
into the fibres from the spinning nozzle to which air  
is blown for cooling. The fibres obtd. are dipped in an  
acid soln. whose pH value is 2-7.  $\text{Ca}_4\text{O}(\text{PO}_4)_2$ ,  
 $\text{Ca}_5(\text{PO}_4)_3\text{OH}$ ,  $\text{Ca}_3(\text{PO}_4)_2$ , or  $\text{CaHPO}_4$  are pref. used as the  
calcium phosphate material.  
- The calcium phosphate fibres stimulate prodn. of new  
bone.